

60,249-495; 10,751-US-AA

IN THE CLAIMS

1. (Currently Amended) A refrigerant system operating as a heat pump comprising:
a flowing fluid and a compressor communicating with first and second heat exchangers;
and

an expansion device communicating via first fluid passages with said first heat exchanger
and communicating via second fluid passage with said second heat exchangers said expansion
device including a flow resistance device arranged between first and second fluid passages and in
fixed relationship thereto, said flow resistance device providing a first fluid resistance for said
flowing fluid in a first direction and a second fluid resistance greater than said first resistance for
said flowing fluid in a second opposite direction, said flow resistance device defining a circular
non-cylindrical cross-sectional flow area.

2. (Original) The heat pump according to claim 1, comprising a four way
reversing valve movable between heating and cooling positions respectively providing fluid flow
in said first and second directions.

3. (Previously Presented) The heat pump according to claim 1, wherein said
flow resistance device includes a body having an entrance and exit side of different geometry.

4. (Original) The heat pump according to claim 3, wherein said second side
included a barbed-like face.

60,249-495: 10,751-US-AA

5. (Original) The heat pump according to claim 3, wherein said second side is a an open face hemisphere.

6. (Original) The heat pump according to claim 3, wherein said flow resistance device is a C-shaped channel with said second side provided by an open face.

7. (Original) The heat pump according to claim 1, wherein said flow resistance device is a bypass angled fluid passage.